Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-10-02** **Date: 06-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-04-10-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.54	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-10-02** **Date: 02-11-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-04-10-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-10-02** **Date: 08-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-10-18
Sample ID No	:	2018-04-10-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7182	7420	49.5	50.5	30-70
4	10 mm	5140	12560	83.7	16.3	10-35
5	4.75 mm	2085	14645	97.6	2.4	0-5
6	Pan	355	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-10-02** **Date: 08-10-18**

Sample ID No : 2018-04-10-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.3	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1..52	_
6	Water Absorption(%)	0.15	_

Note:

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-10-02**

Date: 06-10-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-04-10-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-10-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	185	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	202	416	41.6	58.4	30-70	55-90	75-100	90-100
5	600 micron	193	609	60.9	39.1	15-34	35-59	60-79	80-100
6	300 micron	154	763	76.3	23.7	5-20	8-30	12-40	15-50
7	150 micron	171	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-10-02** **Date: 06-10-18**

Sample ID No : 2018-04-10-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-04-10-02** **Date: 06-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-04-10-02 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 05-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	532	658	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	552	670	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.882	578	689	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-04-10-02** **Date: 09-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-10-18

Sample ID No : 2018-04-10-02 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.51	1.249	4478	98.1	21.9	20.4	25.5
2	Cover Slab-2	75.51	100.49	1.253	4477	99.7	22.3	20.7	25.9
3	Cover Slab-3	75.49	100.48	1.248	4475	97.8	21.9	20.3	25.4

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 22/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-20-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	22/10/2018	150.23 X 150.44 X 150.35	22601	8.205	413.6	18.3	18.1
2	M20 Concrete	M20	15/10/2018	22/10/2018	149.63 X 151.34 X 150.74	22645	8.243	394.0	17.4	
3	M20 Concrete	M20	15/10/2018	22/10/2018	149.72 X 151.72 X 150.36	22716	8.175	420.2	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-20-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	12/11/2018	149.11 X 151.23 X 149.65	22550	8.159	520.9	23.1	23.1
2	M20 Concrete	M20	15/10/2018	12/11/2018	150.37 X 15.42 X 150.63	2319	8.176	53.1	22.9	
3	M20 Concrete	M20	15/10/2018	12/11/2018	150.49 X 150.11 X 150.47	22590	8.205	526.3	23.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 22/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-04-20-02 /03
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	22/10/2018	149.85 X 149.85 X 151.22	22455	8.152	388.5	17.3	17.8
2	M20 Concrete	M20	15/10/2018	22/10/2018	150.35 X 150.49 X 150.32	22626	8.324	409.5	18.1	
3	M20 Concrete	M20	15/10/2018	22/10/2018	149.72 X 151.85 X 150.38	22735	8.208	407.0	17.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-20-02 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	12/11/2018	150.34 X 149.82 X 150.34	22524	8.149	515.8	22.9	23.3
2	M20 Concrete	M20	15/10/2018	12/11/2018	150.98 X 150.35 X 150.22	22700	8.073	531.2	23.4	
3	M20 Concrete	M20	15/10/2018	12/11/2018	149.65 X 150.49 X 150.45	22521	150.940	529.2	23.5	

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 22/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-04-20-02 /05
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	22/10/2018	149.85 X 149.85 X 151.22	22455	8.152	390.7	17.4	17.9
2	M20 Concrete	M20	15/10/2018	22/10/2018	150.35 X 150.49 X 150.32	22626	8.324	420.8	18.6	
3	M20 Concrete	M20	15/10/2018	22/10/2018	149.72 X 150.85 X 150.38	22585	8.208	402.0	17.8	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-10-18

Sample ID No : 2018-04-20-02 /06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	12/11/2018	150.39 X 149.94 X 149.34	22549	8.149	516.4	22.9	23.4
2	M20 Concrete	M20	15/10/2018	12/11/2018	150.98 X 150.35 X 150.32	22700	8.073	533.4	23.5	
3	M20 Concrete	M20	15/10/2018	12/11/2018	149.65 X 150.69 X 150.55	22551	150.940	536.7	23.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 22/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-18
Sample ID No	:	2018-04-20-02 /07
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	22/10/2018	150.35 X 150.32 X 150.22	22601	8.152	397.8	17.6	17.9
2	M20 Concrete	M20	15/10/2018	22/10/2018	150.35 X 150.49 X 150.32	22626	8.324	414.1	18.3	
3	M20 Concrete	M20	15/10/2018	22/10/2018	149.82 X 151.85 X 150.38	22750	8.208	405.0	17.8	

Note:
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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/11/2018

Lab ID	:	**CP-2018-04-20-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-10-2018
Sample ID No	:	2018-04-20-02 /08
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/10/2018	12/11/2018	152.39 X 148.94 X 149.64	22697	8.341	497.1	21.9	22.6
2	M20 Concrete	M20	15/10/2018	12/11/2018	150.98 X 151.35 X 150.45	22851	8.273	514.1	22.5	
3	M20 Concrete	M20	15/10/2018	12/11/2018	149.65 X 151.69 X 150.59	22700	8.329	531.2	23.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 17/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /01

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	17/10/2018	151.10 X 150.27 X 150.24	22705	**8.696**	419.6	18.5	18.5
2	M20 RMC	M20	10/10/2018	17/10/2018	151.76 X 150.09 X 151.62	22777	**8.978**	423.2	18.6	
3	M20 RMC	M20	10/10/2018	17/10/2018	149.37 X 150.74 X 150.09	22515	**8.944**	413.8	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 07/11/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /02

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	07/11/2018	151.06 X 150.44 X 151.82	22725	**8.360**	539.0	23.7	23.1
2	M20 RMC	M20	10/10/2018	07/11/2018	151.14 X 151.37 X 150.74	22877	**8.581**	505.5	22.1	
3	M20 RMC	M20	10/10/2018	07/11/2018	150.22 X 151.35 X 149.99	22735	**8.660**	536.1	23.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 17/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-18
Sample ID No	:	2018-04-20-02 /03
Customer ID	:	M20 RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	17/10/2018	150.62 X 149.51 X 151.36	22520	**8.245**	417.4	18.5	18.2
2	M20 RMC	M20	10/10/2018	17/10/2018	149.82 X 150.82 X 151.57	22595	**8.728**	408.6	18.1	
3	M20 RMC	M20	10/10/2018	17/10/2018	150.49 X 149.71 X 151.91	22529	**8.988**	406.5	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02**

Date: 07/11/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /04

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	07/11/2018	149.76 X 150.48 X 149.89	22536	**8.598**	539.5	23.9	23.0
2	M20 RMC	M20	10/10/2018	07/11/2018	149.60 X 149.79 X 151.64	22407	**8.321**	494.9	22.1	
3	M20 RMC	M20	10/10/2018	07/11/2018	149.08 X 150.39 X 150.92	22420	**8.959**	518.2	23.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 17/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /05

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	17/10/2018	150.38 X 151.94 X 149.51	22850	**8.626**	433.6	19.0	18.7
2	M20 RMC	M20	10/10/2018	17/10/2018	150.79 X 151.49 X 149.20	22842	**8.888**	421.6	18.5	
3	M20 RMC	M20	10/10/2018	17/10/2018	149.60 X 150.51 X 151.85	22516	**8.845**	421.8	18.7	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 07/11/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-18
Sample ID No	:	2018-04-20-02 /06
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	10/10/2018	07/11/2018	151.71 X 149.61 X 151.15	22698	**8.310**	528.7	23.3	23.2
2	M20 Concrete	M20	10/10/2018	07/11/2018	150.08 X 150.49 X 149.39	22586	**8.469**	518.2	22.9	
3	M20 Concrete	M20	10/10/2018	07/11/2018	151.60 X 149.60 X 149.60	22680	**8.321**	527.3	23.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2018

Lab ID	:	**CP-2018-04-20-02**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-18
Sample ID No	:	2018-04-20-02 /07
Customer ID	:	M20 RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	17/10/2018	150.49 X 149.60 X 149.46	22513	**8.406**	423.8	18.8	18.8
2	M20 RMC	M20	10/10/2018	17/10/2018	150.56 X 150.65 X 151.63	22681	**8.320**	426.6	18.8	
3	M20 RMC	M20	10/10/2018	17/10/2018	150.29 X 150.38 X 151.73	22600	**8.200**	422.7	18.7	

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-04-20-02

Date: 07/11/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /08

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	07/11/2018	150.40 X 150.72 X 151.84	22667	**8.321**	523.7	23.1	23.0
2	M20 RMC	M20	10/10/2018	07/11/2018	149.29 X 150.56 X 150.81	22476	**8.263**	499.8	22.2	
3	M20 RMC	M20	10/10/2018	07/11/2018	151.23 X 149.18 X 150.96	22560	**8.215**	536.1	23.8	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-20-02** **Date: 17/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-10-18

Sample ID No : 2018-04-20-02 /09

Customer ID : M20 RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	17/10/2018	149.53 X 150.13 X 149.66	22448	**8.603**	416.2	18.5	18.8
2	M20 RMC	M20	10/10/2018	17/10/2018	150.48 X 151.65 X 150.06	22820	**8.445**	433.4	19.0	
3	M20 RMC	M20	10/10/2018	17/10/2018	151.41 X 149.20 X 149.29	22590	**8.583**	423.3	18.7	

Note:

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Quality Manager

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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-04-20-02** **Date: 07/11/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works in Kuvempunagara 1st Stage main road and Surroundings in ward No.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-18
Sample ID No	:	2018-04-20-02 /10
Customer ID	:	M20 RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 RMC	M20	10/10/2018	07/11/2018	150.72 X 150.95 X 151.57	22752	**8.321**	526.6	23.1	23.2
2	M20 RMC	M20	10/10/2018	07/11/2018	149.32 X 149.45 X 150.48	22316	**8.941**	510.3	22.9	
3	M20 RMC	M20	10/10/2018	07/11/2018	150.84 X 151.68 X 150.51	22879	**8.543**	537.9	23.5	

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